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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/049,153	04/26/2002	Taisto Yrjana	OUTO 2408	8187
7812	7590 12/05/2003		EXAMI	NER
SMITH-HILL AND BEDELL 12670 N W BARNES ROAD			WILSON, GREGORY A	
SUITE 104			ART UNIT	PAPER NUMBER
PORTLAND,	OR 97229		3749	19
			DATE MAILED: 12/05/2003	1 2

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/049,153	YRJANA ET AL.				
Office Action Summary	Examin r	Art Unit				
	Gregory A. Wilson	3749				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, and if NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by standard part of the maximum statutory period for reply received by the Office later than three months after the maximum days and patent term adjustment. See 37 CFR 1.704(b). Status	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of thi riod will apply and will expire SIX (6) MOI atute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 1	<u> 4 November 2003</u> .					
2a) ☐ This action is FINAL . 2b) ☑ T	his action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 17-40 is/are pending in the application	ation.					
4a) Of the above claim(s) is/are with	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6) Claim(s) 17-22,24,26-34,36 and 38-40 is/are rejected.						
7) Claim(s) 23,25,35 and 37 is/are objected to	☑ Claim(s) <u>23,25,35 and 37</u> is/are objected to.					
8) Claim(s) are subject to restriction ar	nd/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exan	niner.	•				
10) The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.				
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the cor	rection is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152.				
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority document	ents have been received. Lents have been received in Appropriate to priority documents have been reau (PCT Rule 17.2(a)). List of the certified copies not estic priority under 35 U.S.C. of first sentence of the specific provisional application has bestic priority under 35 U.S.C.	Application No In received in this National Stage received. § 119(e) (to a provisional application) reation or in an Application Data Sheet. received. §§ 120 and/or 121 since a specific				
Attachment(s) 1) ☑ Notice of References Cited (PTO-892)	∧ .□	Summery (BTO 412) Barrar Na/a)				
7) Notice of References Cited (P10-692) 2) Notice of Draftsperson's Patent Drawing Review (PT0-948) 3) Information Disclosure Statement(s) (PT0-1449) Paper No(5) Notice of	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 17-20, 26, 29-31, 38, and 40 are rejected under 35 U.S.C. 102(e) as being anticipated by Ruiter (6,471,509). Ruiter discloses a support apparatus for supporting material (20) and includes an elongate gas control element (support construction 3) which is curved over its' entire surface having a first and second guide surface (SEE indication of element 25) having a center of curvature that is farther than the central axis of the support elements from the central axis of the gas control element, a flow through type cooling agent (SEE column 5, lines 12-20), a first and second

Art Unit: 3749

substantially cylindrical support elements (10 & 11) of substantially equal diameter (SEE Figure 2), and having a central axis which is parallel to the central axis of gas control element (3) wherein the gas control element is located between the support elements with the guide surfaces facing toward the support elements (SEE Figure 2). The guide surfaces are spaced from the support elements and are structurally capable of supporting a gas flow channel between the support element and the gas control element. This gas flow channel has a width that increases in distance from the common plane (SEE distance between elements 10 and 25). The gas control element which may constitute part of a seal, includes two lobes (Figure 2) that extend to opposite respective sides of a common plane, radially from the central axis and which structurally meet the limitations as defined by the claimed equation.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 17-22, 24, 26-34, 36, and 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blomqvist et al (4,538,986). Blomqvist et al discloses a support apparatus (unnumbered) (SEE Figures 3 & 4) for a furnace (13) and includes an elongate gas control element (5) curved over its' entire surface, which constitutes part of a seal (Figure 3), having first and second guide surfaces (space between

Application/Control Number: 10/049,153

Art Unit: 3749

element 5 & 7) having a center of curvature that is farther than the central axis of the first support element from the central axis of the gas control element, first and second cylindrical support elements (7), its' central axis being parallel to the central axis of gas control element and spaced therefrom; the gas control element is located between the support elements with the first and second guide surfaces of the gas control element facing towards the first and second support elements, the guide surfaces are spaced from the support elements and are capable of providing a flow channel between each support element and the gas control element and enable flow used in treatment of the material between the support element and the control element, the gas control element includes two lobes (SEE Figures 3 & 4) that extend to opposite respective sides of the common plane of the gas control element and extend radially from its' central axis by a distance which structurally is capable of meeting the requirements of the claimed equation; the gas flow channel slightly increases in width (Figure 3) with distance from the common plane. The prior art furthermore includes at least two sealing elements (9) wherein the gas control element is between the seals and flow can be directed underneath the material to be supported. A cooling agent is conducted through pipes (10) which inherently go through the seals (9) (SEE column 2, lines 35-43 and Figure 1), and also provide cooling to each support element and gas control element. Blomqvist et al does not particularly recite that the cooling fluid is a gas, but instead teaches cooling water. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to substitute a cooling gas for the cooling water, since

Page 4

Art Unit: 3749

it has been held to be within the general skill of a worker in the art that a cooling gas or cooling water are well known fluids suitable for cooling in a furnace environment.

Allowable Subject Matter

Claims 23, 25, 35, and 37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory A. Wilson whose telephone number is (703) 308-1239. The examiner can normally be reached on 7 am - 4:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira Lazarus can be reached on (703)308-1935. The fax phone number for the organization where this application or proceeding is assigned is (703)308-7764.

Art Unit: 3749

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.

GREGORY WILSON

November 22, 2003